ATTACHMENT 3 TRAFFIC

Traffic Impact Study Proposed Bangor Savings Bank Marginal Way Portland, Maine May 2015

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Executive Summary

The following Executive Summary is prepared for the reader's convenience, but is not intended to be a substitute for reading the full report.

Gorrill-Palmer (GP) was retained by Bangor Savings Bank to examine the traffic impacts associated with a proposed three story 7,708 square foot Bangor Savings Bank building with two drive-through lanes to be located on the northwesterly side of Marginal Way in Portland. The site is currently occupied by the Northern Pride Auto Wash, which will be closed and demolished as part of this development. The site is currently served by two driveways. The westerly driveway will be removed and the easterly driveway will remain to serve the proposed bank. A site location map is included as Figure 1 in Appendix A.

Based on the results of the study, our office finds the following:

- 1. The proposed development is forecast to generate 61 and 84 trip ends for the weekday AM and PM peak hours of the generator, respectively. However, the existing Northern Pride Auto Wash generates 106 and 118 trip ends for the weekday AM and PM peak hours, respectively, for which credit can be taken. Therefore, this project will result in a decrease of 45 and 34 trip ends in the weekday AM and PM peak hours for the cart wash, respectively. Since there is not a net traffic increase of 100 peak hour trip ends, a MaineDOT traffic movement permit will not be required.
- 2. The level of service analyses show that the proposed project will have a minimal impact on traffic flow in the vicinity of the site.
- 3. GP reviewed the MaineDOT crash data for the years 2012 2014. Based on the published history, the roadway segment where the site drive is located is not classified as a high crash location.
- 4. The proposed project will result in the closure of one of the two driveways currently serving the site. The available sight distances at the remaining easterly driveway exceed local and MaineDOT sight distance requirements. GP recommends that all plantings, which will be located within the right of way, not exceed three feet in height and be maintained at or below that height. Signage should not interfere with sight lines. In addition, we recommend that during construction, when heavy equipment is entering and exiting the site, that appropriate measures, such as signage and flag persons, be utilized in accordance with the Manual on Uniform Traffic Control Devices.
- 5. The proposed Bangor Savings site has been designed to facilitate pedestrian circulation and safety.

Based on these findings, it is the opinion of GP that the existing street system can accommodate the traffic generated by the redevelopment of this site.

I. Proposed Site

The site is currently occupied by the Northern Pride Auto Wash, which will be closed and demolished as part of this development. The site is currently served by two driveways. The westerly driveway will be removed and the easterly driveway will remain to serve the proposed bank. A site location map is included as Figure I in Appendix A.

Proposed for the site is a three story 7,708 square foot Bangor Savings Bank building with two drivethrough lanes. The lower level of the building will be a retail branch with two drive thru lanes and the upper two floors will be offices for bank management.

II. Background Traffic Conditions

GP based the study on the following information:

- A proposed site plan prepared by GP dated May 2015.
- ➤ Crash information for 2012-2014 provided by the Maine Department of Transportation (MaineDOT).
- Post development traffic volumes for the Federated property project in Bayside furnished by FST for the following intersections
 - State, Kennebec and Marginal
 - Marginal and Preble
- Memorandum from Bradley Lyon of Sebago Technics entitled "Trip Generation for 20 Marginal Way, Portland, Maine"

Predevelopment Traffic Volumes

Federated Properties

The Bayside area development proposed by Federated Properties was recently approved by the City of Portland. FST furnished their projected post development traffic volumes to GP which were utilized as the predevelopment volumes for the proposed Bangor Saving Bank Project.

III. Trip Generation

Proposed for the site is a three story 7,708 sf Bangor Savings Bank building. The ground floor of the building will be a 2,108 sf retail bank with two drive-through lanes. The upper two floors will be bank offices consisting of 2,800 sf each. The existing Northern Pride car wash currently on the site will be demolished.

In order to determine the need for a MaineDOT Traffic Movement Permit, GP has estimated the trip ends generated by the current use of the site as well as the proposed bank and office building using the Institute of Transportation Engineers (ITE) publication <u>Trip Generation</u>. A trip end is defined as an in or out, thus a round trip is equal to two trip ends. These calculations presented below show there is

a net decrease in trip ends during the AM and PM peak hours of the proposed bank building compared to the car wash. Since there is not a net traffic increase of 100 peak hour trip ends, a MaineDOT traffic movement permit will not be required.

Trips associated with the Northern Pride car wash- GP utilized a memorandum from Bradley Lyons of Sebago Technics to William DeSena dated August 29, 2014 to estimate the trip ends associated with the car wash. A copy of this memo is included in the Appendix to this report. The memo analyzed the trip generation associated with the car wash using sales data for weekdays in January, April and December and on a Sunday in April of 2013. The data showed a weekday average of 106 AM and 118 and PM trip ends during the peak hours for the car wash for the data compiled.

Trip Estimate for the Proposed Bank- For the purposes of this analysis, GP has estimated the trips generated by the proposed bank using Land Use Code 912, Drive-In Bank of the 9th Edition of the Institute of Transportation Engineers publication, <u>Trip Generation</u>. A summary of the resulting trip generation estimate is presented below. The trip generation calculations are included in Appendix C.

Trip Generation – Net Increase for Proposed Bangor Savings Bank (*Trip Ends) During the Peak hour of the Generator

Time Period	Car Wash	Bangor Savings Bank	Net Increase
Daily	1076	432	-644
Weekday AM Peak Hr of Generator	106	61	-45
Weekday PM Peak Hr of Generator	118	84	-34
Saturday Peak Hr of Generator	116	57	-59

^{*}A trip end is either a trip into or out of the site. Thus a round trip equals two trip ends.

These results show that the peak hours of the proposed project will generate less than currently occurs during the peak hours of the existing car wash.

The peak hour of the adjacent street traffic on Marginal Way generally occurs from 7:30 to 8:30 AM and again from 4:30 to 5:30 PM. A comparison of the existing and proposed uses during the peak hour of the adjacent street traffic is summarized below:

Trip Generation – Net Increase for Proposed Bangor Savings Bank (*Trip Ends) During the Peak Hour of Adjacent Street Traffic

Time Period	Car Wash	Bangor Savings Bank	Net Increase
Daily	1076	432	-644
Weekday AM Peak Hr of Adj Street	85	43	-42
Weekday PM Peak Hr of Adj Street	98	84	-14
Saturday Peak Hr of Adj Street	116	57	-59

These results show that during the peak hour of the adjacent street traffic the proposed project will generate less than currently occurs during the peak hour of the adjacent street traffic for the existing car wash.

IV. Trip Distribution

GP has estimated the trip distribution based on the information published by ITE which is summarized below.

Land Use	AM Peak	PM Peak
Retail Bank		
Entering	60%	50%
Exiting	40%	50%
Office		
Entering	90%	15%
Exiting	10%	85%

V. Trip Composition

GP has utilized the following trip composition based on information obtained from the ITE publication, *Trip Generation Handbook* for Land Use Codes 715 and 912, Single Tenant Office Building and Drive-In Bank respectively. The percentages were compiled for the AM and PM peak hours as follows:

Trip Composition for Proposed Bangor Savings Bank

Trip Type		AM Peak Hour				PM Peak Hour			
		Office		Bank	(Office		Bank	
	Enter	Exit	Enter	Exit	Enter	Exit	Enter	Exit	
Primary	18	2	3	2	2	23	7	8	
Pass-by	0	0	7	5	0	0	15	15	
Diverted	0	0	3	2	0	0	7	7	
Total	18	2	13	9	2	23	29	30	

VI. Trip Assignment

The trip assignment for the proposed site is based on existing traffic patterns. Trip assignment is shown on Figure 3 in Appendix A. Since the Northern Pride car wash was operational when the traffic counts were completed for Federated Properties we have assumed the development traffic was already in the traffic stream at the adjacent intersections.

VII. 2016 Post Development Traffic

The anticipated year 2016 predevelopment traffic shown on Figure 2 of Appendix A has been combined with the trips forecast for the development shown on Figure 3 of Appendix A to yield the 2016 postdevelopment traffic shown on Figure 4 of Appendix A.

VIII. Study Area

Since the proposed project is forecast to generate less trips than the car wash during both the adjacent street as well as the overall peak hours, the study area for the project is limited to the site driveway onto Marginal Way.

IX. Capacity Analyses

The capacity analyses were performed using the Synchro / Simtraffic computer software, with an average of five runs. Levels of service rankings are similar to the academic ranking system where an 'A' represents little control delay and an 'F' represents significant delay. A level of service 'D' or above is desired at a signalized intersection. At an unsignalized intersection, if the level of service falls below a 'D', an evaluation should be made to determine if further mitigation is warranted.

The following table summarizes the relationship between control delay and level of service for an unsignalized intersection:

Level of Service Criteria for Unsignalized Intersections

Level of Service	Control Delay per Vehicle (sec)
Α	Up to 10.0
В	10.1 to 15.0
C	15.1 to 25.0
D	25.1 to 35.0
E	35.1 to 50.0
F	Greater than 50.0

Site Driveway / Marginal Way

The results of the capacity analyses for the site driveway for the AM and PM peak hours of adjacent street traffic are summarized as follows. The detailed analyses are included in Appendix B.

Level of Service Summary

	Peak Hour			
Approach	AM Post	PM Post		
Site Drive / Marginal Way				
Site Drive - SB	Α	В		
Marginal - NE	Α	Α		
Marginal - SW	Α	Α		

As can be seen from the results, the each of the approaches of the site driveway intersection are forecast to operate at acceptable levels of service.

X. Crash Data

In order to evaluate whether a location has a crash problem, MaineDOT uses two criteria to define High Crash Locations (HCL). Both criteria must be met in order to be classified as an HCL.

- 1. A critical rate factor of 1.00 or more for a three-year period. (A Critical Rate Factor {CRF} compares the actual accident rate to the rate for similar intersections in the State. A CRF of less than 1.00 indicates a rate less than average) and:
- 2. A minimum of eight crashes over the same three-year period.

The following summarizes the crash history for the roadway segment where the site driveway is located.

MaineDOT Crash Data for 2012-2014: Road Segments

				# of		
Nodes	Street	From	То	Collisions	CRF	HCL?
60346-18999	Marginal Way	Forest Ave	Hanover St	2	0.31	No

Based on the published history provided by MaineDOT, the roadway segment where the site driveway is located is not classified as a high crash location.

XI. Sight Line Analysis

The Maine Department of Transportation (MaineDOT) and the City of Portland have guidelines for sight distances at roadways. The sight line standards for MaineDOT and the City of Portland are as follows:

Sight Distance Requirements

Speed (mph)	MaineDOT (ft)	City of Portland (ft)
25	200	367
30	250	440
35	305	513
40	360	587
45	425	660
50	495	773

GP has evaluated the available sight lines at the proposed site driveway on Marginal Way in accordance with MaineDOT and City of Portland standards.

The MaineDOT standards are as follows:

Roadway observation point: Height of eye at roadway:

Height of approaching vehicle:

10 feet off major street travelway

3 1/2 feet above ground

4 1/4 feet above road surface

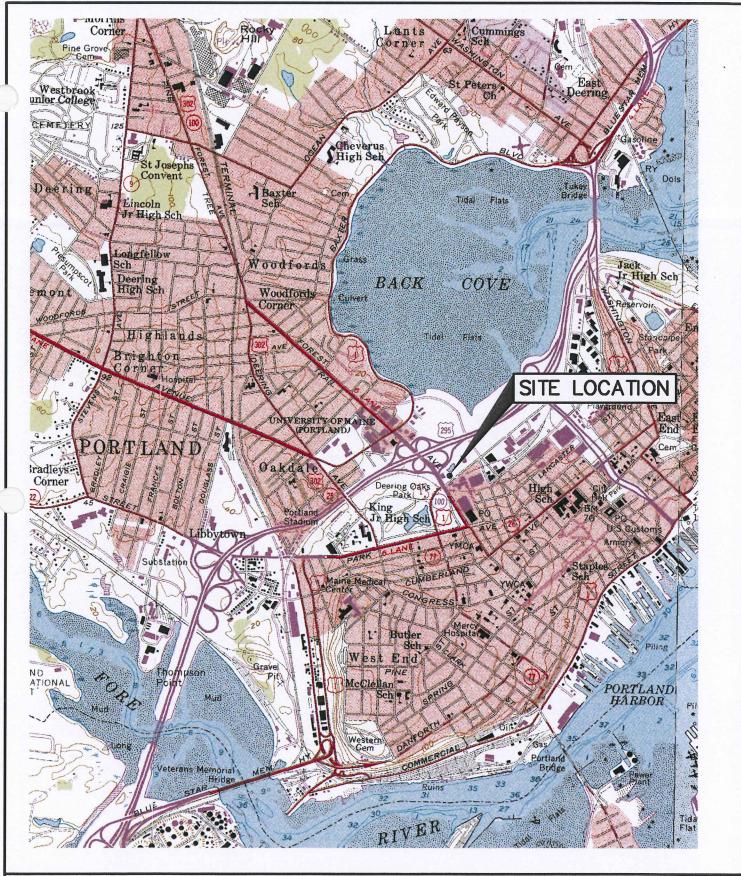
The posted speed limit on Marginal Way in the site vicinity is 35 mph. Based on a site review, the sight distance looking to the right is to Forest Avenue, and the sight distance exceeds 550 feet looking to the left. Therefore, the available sight distances are acceptable.

GP recommends that all plantings, which will be located within the right of way, not exceed three feet in height and be maintained at or below that height. Signage should not interfere with sight lines. In addition, we recommend that during construction, when heavy equipment is entering and exiting into the site, that appropriate measures, such as signage and flag persons, be utilized in accordance with the Manual on Uniform Traffic Control Devices (MUTCD).

XII. Pedestrian Circulation

The proposed Bangor Savings site has been designed to facilitate pedestrian circulation and safety. The building has been brought to the front of the lot to facilitate pedestrian access to the front of the building. The building will also be fronted by a sidewalk to facilitate convenient pedestrian access to the building. Furthermore, the existing car wash has two curb cuts on Marginal Way. The proposed Bangor Saving Bank project will eliminate one of the existing curb cuts to improve pedestrian safety.

APPENDIX A



U.S.G.S. Location Map

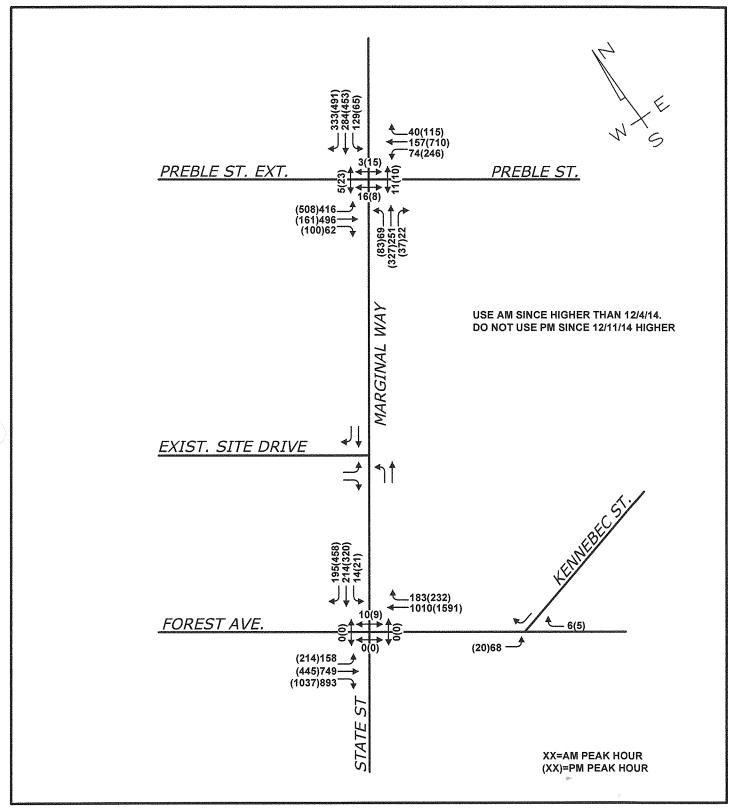
Bangor Savings Bank - Portland, Maine U.S.G.S. Portland-East, Maine-7.5 Minute Series (Topographic)

Design: JWA	Date: may 2015
Draft: CG	Job No.: 2970
Checked: AMP	Scale: None



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Figure

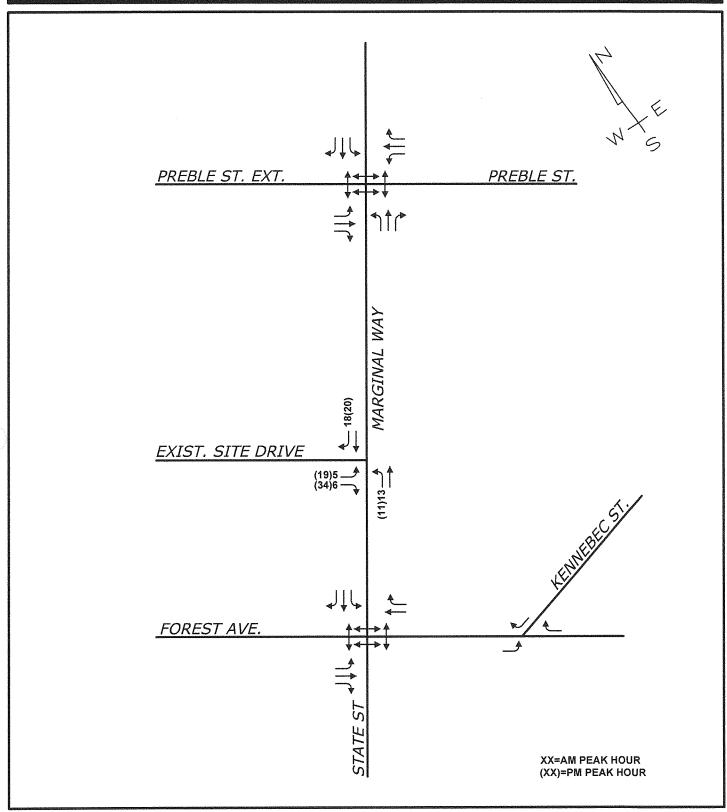


PROPOSED BANGOR SAVINGS, PORTLAND, MAINE

Design: TLG Draft: DB Checked: -

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PROPOSED BANGOR SAVINGS, PORTLAND, MAINE

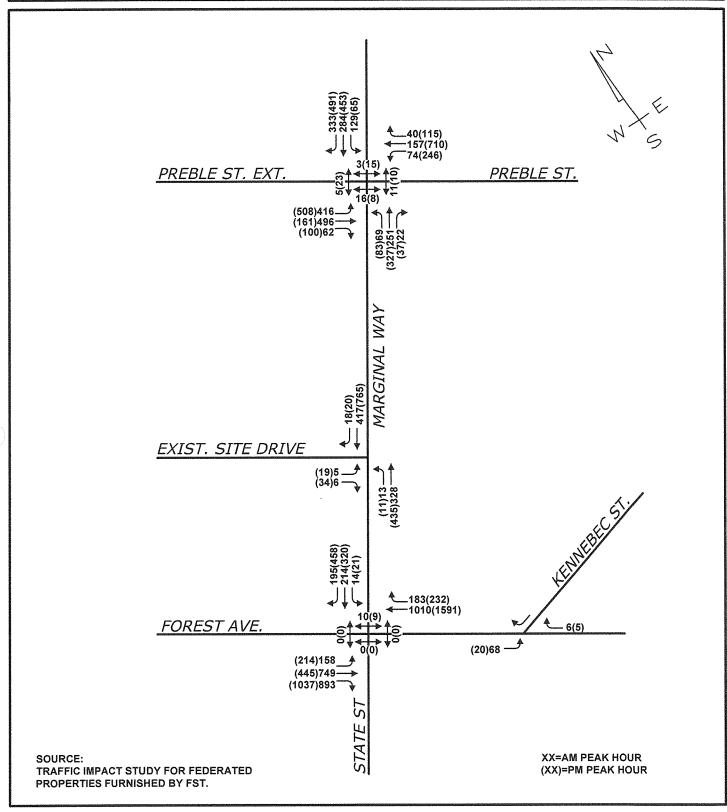
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TLG DB

Scale: Date:

NONE APR 2015 File Name: 2970-TRAFF.dwg





PROPOSED BANGOR SAVINGS, PORTLAND, MAINE

Design: Draft: Checked:

TLG

Scale: NONE Date: APR 2015 File Name: 2970-TRAFF.dwg



APPENDIX B

Summary of All Intervals

Run Number	1	2	3	4	5	Avg	
Start Time	6:57	6:57	6:57	6:57	6:57	6:57	200000
End Time	8:00	8:00	8:00	8:00	8:00	8:00	
Total Time (min)	63	63	63	63	63	63	
Time Recorded (min)	60	60	60	60	60	60	
# of Intervals	2	2	2	2	2	2	
# of Recorded Intervals	1	1	1	1	1	1	
Vehs Entered	811	853	785	777	739	792	
Vehs Exited	809	856	785	777	738	793	
Starting Vehs	6	7	7	2	5	5	
Ending Vehs	8	4	7	2	6	5	
Travel Distance (mi)	124	132	120	120	114	122	
Travel Time (hr)	4.5	4.8	4.4	4.3	4.1	4.4	
Total Delay (hr)	0.3	0.3	0.3	0.2	0.2	0.2	
Total Stops	29	18	16	13	9	17	
Fuel Used (gal)	3.9	4.1	3.8	3.7	3.4	3.8	

Interval #0 Information Seeding

Start Time	6:57
End Time	7:00
Total Time (min)	3
Volumes adjusted by G	rowth Factors.
No data recorded this in	iterval.

Interval #1 Information Recording

Start Time	7:00
End Time	8:00
Total Time (min)	60
Volumes adjusted by Grov	wth Factors.

Run Number	1	2	3	4	5	Avg	
Vehs Entered	811	853	785	777	739	792	
Vehs Exited	809	856	785	777	738	793	
Starting Vehs	6	7	7	2	5	5	
Ending Vehs	8	- 4	7	2	6	5	
Travel Distance (mi)	124	132	120	120	114	122	
Travel Time (hr)	4.5	4.8	4,4	4.3	4.1	4.4	
Total Delay (hr)	0.3	0.3	0.3	0.2	0.2	0.2	
Total Stops	29	18	16	13	9	17	
Fuel Used (gal)	3.9	4.1	3.8	3.7	3.4	3.8	

5/6/201

3: Site Drive & Marginal Way Performance by approach

Approach	SB	NE	SW	All	
Denied Del/Veh (s)	0.1	0.4	0.3	0.4	
Total Del/Veh (s)	5.0	0.4	0.5	0.5	

Total Network Performance

Denied Del/Veh (s)	0.4	
Total Del/Veh (s)	0.7	

Intersection: 3: Site Drive & Marginal Way

Movement	SB	NE
Directions Served	LR	L
Maximum Queue (ft)	24	31
Average Queue (ft)	7	5
95th Queue (ft)	25	25
Link Distance (ft)	243	
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		50
Storage Blk Time (%)		0
Queuing Penalty (veh)		0

Network Summary

Network wide Queuing Penalty: 0

Summary of All Intervals

Run Number	1	2	3	4	5	Avg	
Start Time	6:57	6:57	6:57	6:57	6:57	6:57	
End Time	8:00	8:00	8:00	8:00	8:00	8:00	
Total Time (min)	63	63	63	63	63	63	
Time Recorded (min)	60	60	60	60	60	60	
# of Intervals	2	2	2	2	2	2	
f of Recorded Intervals	1	1	1	1	1	1	
/ehs Entered	1316	1377	1264	1211	1229	1279	
Vehs Exited	1321	1381	1263	1212	1230	1281	
Starting Vehs	10	10	8	5	5	7	
Ending Vehs	5	6	9	4	4	5	
Fravel Distance (mi)	202	212	194	186	189	196	
ravel Time (hr)	7.7	8.2	7.4	7.0	7,1	7.5	
Total Delay (hr)	0.7	0.9	0.7	0.6	0.7	0.7	
Total Stops	55	62	58	55	52	57	
Fuel Used (gal)	6.6	6.9	6.4	6.0	6.1	6.4	

Interval #0 Information Seeding

Start Time	6:57
End Time	7:00
Total Time (min)	3
Volumes adjusted by G	rowth Factors.
No data recorded this in	nterval

Interval #1 Information Recording

Start Time	7:00
End Time	8:00
Total Time (min)	60
Volumes adjusted by G	rowth Factors.

Run Number	1	- 2	3	4	5	Avg	
Vehs Entered	1316	1377	1264	1211	1229	1279	
Vehs Exited	1321	1381	1263	1212	1230	1281	
Starting Vehs	10	10	8	5	5	7	
Ending Vehs	5	6	9	4	4	5	
Travel Distance (mi)	202	212	194	186	189	196	
Travel Time (hr)	7.7	8.2	7.4	7.0	7.1	7.5	
Total Delay (hr)	0.7	0.9	0.7	0.6	0.7	0.7	
Total Stops	55	62	58	55	52	57	
Fuel Used (gal)	6.6	6.9	6.4	6.0	6.1	6.4	

3: Site Drive & Marginal Way Performance by approach

Approach	SB	NE	SW	All	
Denied Del/Veh (s)	0.1	0.4	0.7	0.6	
Total Del/Veh (s)	12.2	0.4	8,0	1.1	

Total Network Performance

		2000000
Denied Del/Veh (s)	0.6	•
Total Del/Veh (s)	1.5	Symmetric

Intersection: 3: Site Drive & Marginal Way

Movement	SB	NE	
Directions Served	LR	L	
Maximum Queue (ft)	66	36	
Average Queue (ft)	23	6	
95th Queue (ft)	50	26	
Link Distance (ft)	243		
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)		50	
Storage Blk Time (%)		0	
Queuing Penalty (veh)		0	

Network Summary

Network wide Queuing Penalty: 0

APPENDIX C

JN: Project Description: Project Location: Date: 2970 Bangor Savings Bank Marginal Way, Portland 5/4/2015 Gorrill-Palmer Consulting Engineers, Inc. P.O. Box 1237 15 Shaker Road Gray, Maine 04039

Single Tenant Office Building Land Use Code (LUC) 715

Gross Floor Area (ft²):

5,600

Average Rate

Time Period	ITE Trip Rate	Trip Ends
Weekday	T = 11.65 (X)	65
AM Peak Hour	T = 1.80 (X)	10
PM Peak Hour	T = 1.74 (X)	10

Direction	nal Split *	Directional	Distribution
IN	OUT	IN	OUT
50%	50%	33	32
90%	10%	9	1
15%	85%	2	8

^{*} Percentages rounded to nearest 5%

Fitted Curve

Time Period	ITE Trip Rate	Trip Ends
Weekday	Ln (T) = 0.60 Ln (X) + 4.30	207
AM Peak Hour	T = 1.67(X) + 21.93	31
PM Peak Hour	T = 1.52 (X) + 34.60	43

Direction	al Split *	Directional	Distribution
IN	OUT	IN	OUT
50%	50%	104	103
90%	10%	28	3
15%	85%	6	37

^{*} Percentages rounded to nearest 5%

AVERAGE

Time Period	Trip Ends	Directio IN	nal Split * OUT	Directiona IN	l Distribution OUT
Weekday	136	50%	50%	68	68
AM Peak Adjacent Street	21	90%	10%	18	2
PM Peak Adjacent Street	27	15%	85%	4	23
	965				

JN:

Project Description: Project Location:

2970

Bangor Savings Marginal Way Portland 5/4/2015

Gorrill-Palmer Consulting Engineers, Inc. P.O. Box 1237 15 Shaker Road Gray, Maine 04039

Drive-in Bank-9th Edition Land Use Code (LUC) 912

Gross Floor Area (ft²):

2,108

Time Period	ITE Trip Rate Trip Ends		Directio	Directional Split *		Directional Distribution	
Time Period	IIE IIIp Kate	mp Enus	IN	OUT	IN	OUT	R^2
Weekday	T = 148.15 (X)	312	50%	50%	156	156	0.59
AM Peak Adjacent Street	T = 12.08 (X)	25	55%	45%	14	11	
PM Peak Adjacent Street	T = 24.30 (X)	51	50%	50%	26	25	
AM Peak Hour of Generator	T = 17.57 (X)	37	50%	50%	19	18	0.51
PM Peak Hour of Generator	T = 26.69 (X)	56	50%	50%	28	28	
Saturday	T =86.32 (X)	182	50%	50%	91	91	0.52
Saturday Peak Hour of Gen.	T = 26.31 (X)	55	50%	50%	28	27	

^{*} Percentages rounded to nearest 5%

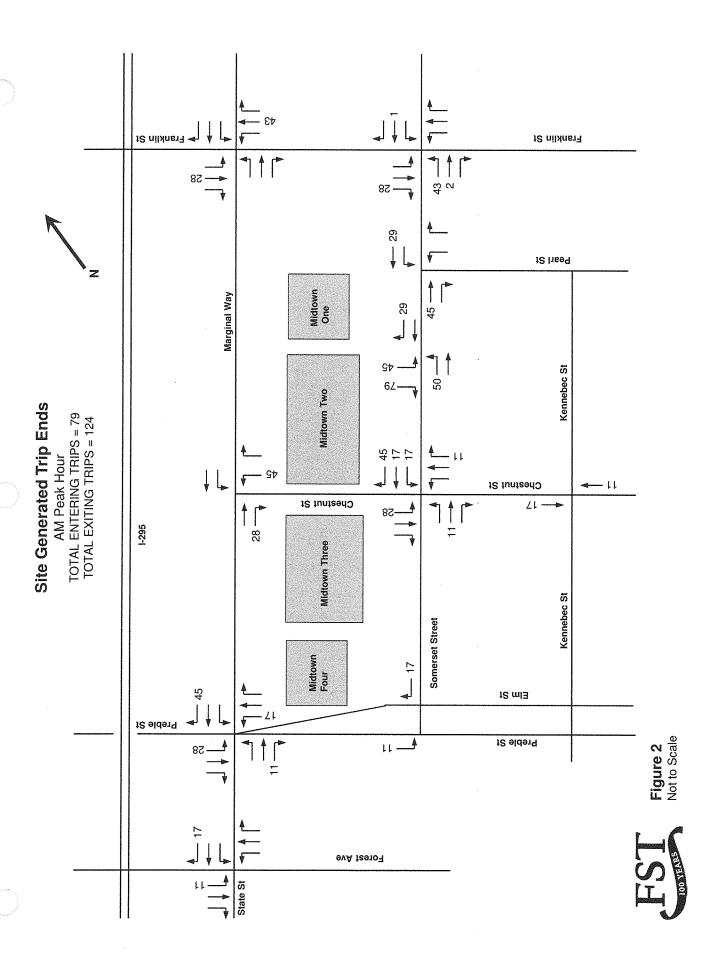
Number of Drive-in Lanes:

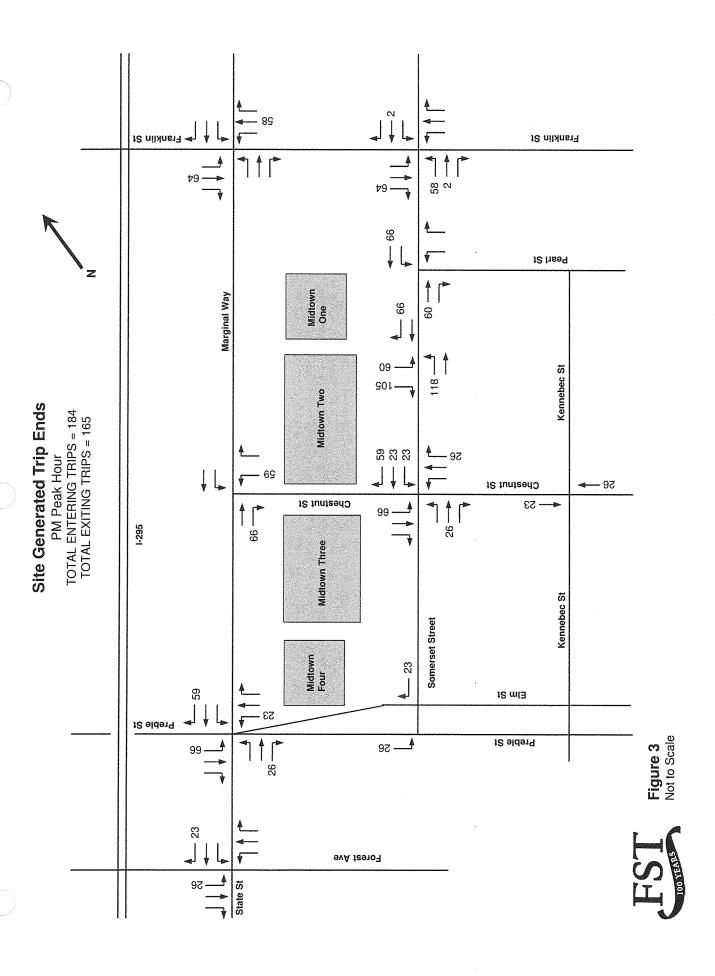
Time Period	ITE Trip Rate	Trip Ends	Direction	Directional Split *		Directional Distribution	
Time renou	TIE TIP Nate	Tip Elias	IN	OUT	IN	OUT	R^2
Weekday	T = 139.25 (X)	279	50%	50%	140	139	0.52
AM Peak Adjacent Street	T = 9.29(X)	19	60%	40%	11	8	
PM Peak Adjacent Street	T = 33.24 (X)	66	50%	50%	33	33	
AM Peak Hour of Generator	T = 21.64 (X)	43	50%	50%	22	21	
PM Peak Hour of Generator	T = 29.05 (X)	58	50%	50%	29	29	0.55
Saturday	Not Given	0	50%	50%	0	0	~~~
Saturday Peak Hour of Gen.	T = 28.78 (X)	58	50%	50%	29	29	

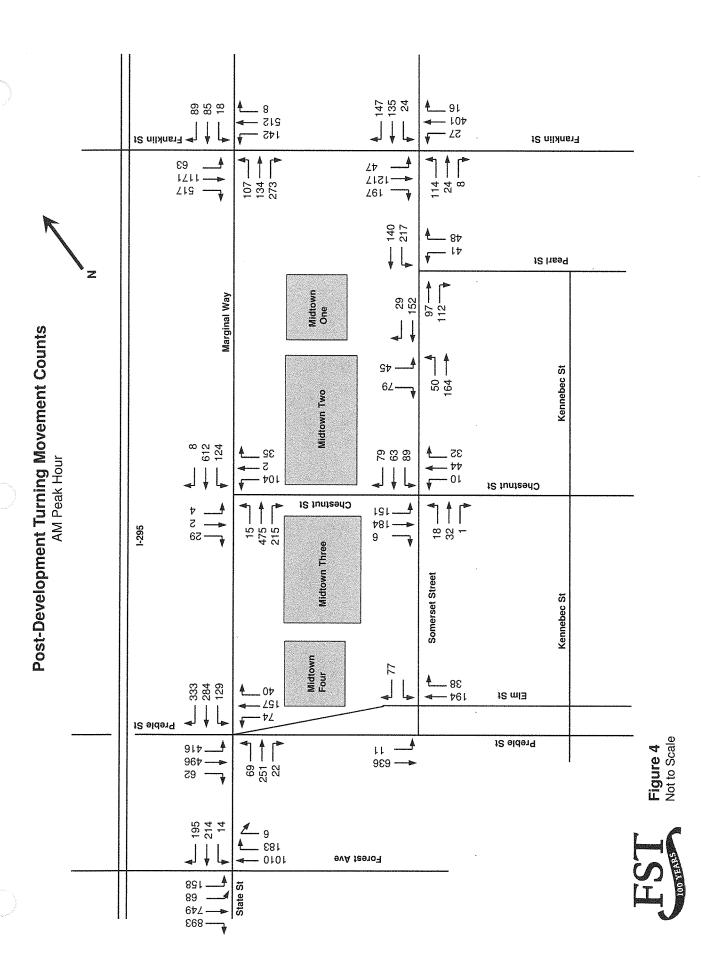
^{*} Percentages rounded to nearest 5%

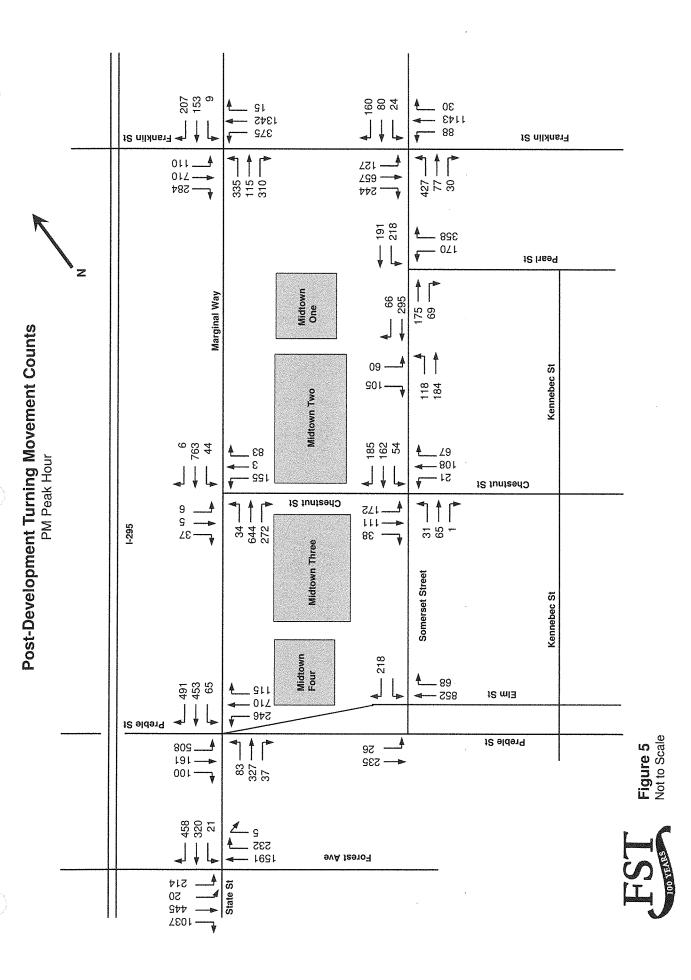
AVERAGE

Time Period	Trip Ends	Directio	nal Split *	Directional Distribution	
Time Feriou	Trip Elius	IN	OUT	IN	OUT
Weekday	296	50%	50%	148	148
AM Peak Adjacent Street	22	58%	42%	13	9
PM Peak Adjacent Street	59	50%	50%	29	30
AM Peak Hour of Generator	40	50%	50%	20	20
PM Peak Hour of Generator	57	50%	50%	29	28
Saturday Peak Hour of Gen.	57	50%	50%	28	29











Memorandum

To: William DeSena

From: Bradley R. Lyon, P.E., PTOE,

Senior Transportation Engineer

Job #: 14313

Date: August 29, 2014

Subject: Trip Generation Calculations for

20 Marginal Way, Portland, Maine

BRADLEY R.
LYON
No. 12632
SOCENSED OF THE STATE OF MARKET STAT

The purpose of this memorandum is to calculate what the peak hour trip generation is on 20 Marginal Way in Portland, Maine for the existing 2,500 sf "Northern Pride" automated car wash and compare it to the following three proposed land uses:

- 2,500 sf Dunkin Donuts w/Drive Thru
- 2,500 sf Generic Coffee Shop w/Drive Thru
- 2,500 sf Drive-In Bank w/1 Drive Thru Lane

Existing 2,500 sf "Northern Pride" Automated Car Wash

The latest edition, 8th, of the Institute of Transportation Engineers (ITE) Trip Generation Manual was referenced using Land Use Code 948, Automated Car Wash in an attempt to estimate peak hour traffic. Analysis of the land use found that only 2 observations were available, therefore existing sales data was requested. Existing hourly sales data was provided to us for weekdays in January, April and December of 2013 and a Sunday in April of 2013. The results, as well as the calculated weekday average are as follows:

<u>Table 1</u>
"Northern Pride Auto Wash" Sales Data

Time Period	Wed., Dec. 11, 2013	Tues., Jan. 8, 2013	Thurs., Jan. 10, 2013	Tues., April 20, 2013	Sat., Feb. 23, 2013	Sun., April 7, 2013	Weekday Average
07:30 AM - 08:00 AM	18	22	20	20	24	19	20
08:00 AM - 09:00 AM	49	36	36	57	43	43	45
09:00 AM - 10:00 AM	71	37	46	56	54	42	53
10:00 AM - 11:00 AM	52	46	51	55	43	46	51
11:00 AM - 12:00 PM	48	51	57	51	42	52	52
12:00 PM – 1:00 PM	69	57	59	51	58	56	59
1:00 PM — 2:00 PM	60	51	54	46	43	56	53
2:00 PM – 3:00 PM	45	55	58	43	52	43	50
3:00 PM — 4:00 PM	61	58	64	44	47	53	57
4:00 PM – 5:00 PM	49	52	54	52	54	60	52
5:00 PM- 6:00 PM	34	60	45	44	47	45	46

Given this data, it was determined that the existing weekday AM Peak Hour was from 9:00 AM to 10:00 AM, generating **106 trips** (53 sales * 2 (entering and exiting vehicles)) and the existing weekday PM Peak Hour was from 12:00 PM to 1:00 PM, generating **118 trips** (weekday average of 59 sales * 2 (entering and exiting vehicles)). The Saturday Peak Hour occurred from 12:00 PM to 1:00 PM on February 23, 2013 with **116 trips** (58 sales * 2 (entering and exiting vehicles)). The Sunday Peak Hour occurred from 4:00 PM to 5:00 PM on April 7th, 2013 with **120 trips** (60 sales * 2 (entering and exiting vehicles)). A summary of this can be found in Table 2 below:

Table 2 Proposed Trip Generation based on Sales Data "Northern Pride Auto Wash"

	Total Trips
Weekday AM	
Peak Hour of	106
Generator	
Weekday PM	
Peak Hour of	118
Generator	
Saturday Peak	
Hour of	116
Generator	
Sunday Peak	
Hour of	120
Generator	

Proposed 2,500 sf Dunkin Donuts w/Drive Thru

Dunkin Donuts stores are unique in their trip generating characteristics and as such a special study was conducted in 2005 by Gorrill - Palmer Engineers (G-P) to better define these relationships, since MaineDOT determined that standard ITE data did not seem to provide reasonable estimates. The G-P Study outlined three means of more accurately forecasting trip generation by these facilities based on their location and the traffic volumes in the vicinity of the sites. We used these methodologies to arrive at the following results, which have been averaged to determine the AM Peak Hour of the generator. It should be noted that the Annual Average Daily Traffic in front of the site was recorded by MaineDOT in 2010 to be 8,050 vehicles per day. In addition, the AM peak hour is generally considered to be 8% of the average daily traffic, which in this case would be 644 vehicles.

Average			=	231 trips
Trip Gen by AM Peak H	r=	0.1061*(644 vehicles) + 144.49	=	212.82 trips
Trip Gen by AADT	=	0.0081*(8,050 AADT) + 139.36	=	204.57 trips
Trip Gen by Store Size	=	0.0536*(2,500 S.F.) + 142.75	=	276.75 trips

The above figure will place this Project in the "over 200" Traffic Movement Permit category. However, Dunkin Donuts stores have only a 15% Primary (or new) Trip production rate, (i.e. most patrons are already on the roadway network and stop in on their way by). Very few are new trips to the roadway. In this case the 231 Dunkin Donuts trips will only represent about 35 new trips or approximately 18 new trips in and 17 new trips out of the site. Given the presence of an existing shared left turn lane on Marginal Way, offsite improvements should be minimal but the extent of improvements wouldn't be able to be determined until a "Scoping Meeting" is held with MaineDOT. The application fees to the state for permit of this level are \$2,000 plus our engineering costs to produce the application and perform a formal traffic study of the area.

Proposed 2,500 sf Generic Coffee Shop w/Drive Thru

Similar to the trip generation estimate for the existing "Northern Pride" automated car wash, the proposed 2,500 sf Generic Coffee Shop w/Drive Thru was estimated using the 8th Edition of the ITE Trip Generation Manual. Land Use Code 940 Bread/Donut/Bagel Shop with Drive-Through Window was used. Data was only available for the peak hour of adjacent street traffic, one hour between 7 and 9 AM and one hour between 4 and 6 PM. The results are as follows:

Table 3
Proposed Trip Generation by Square Feet
Land Use Code 940, Bread/Donut/Bagel Shop with Drive-Through Window

By Square Feet	Square Feet	Rate (Trips / 1,000 sf)	Total Trips
Weekday Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 AM	2,500	36.92	92
Weekday Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 PM	2,500	19.56	49

Given this information a Traffic Movement Permit would not be required from the MaineDOT due to the fact that the development would generate less than 100 peak hour trips.

Proposed 2,500 sf Drive-In Bank w/1 Drive Thru Lane

Similar to the trip generation estimate for the existing "Northern Pride" automated car wash and the Generic Coffee Shop, the proposed 2,500 sf Drive-In Bank w/1 Drive Thru Lane was estimated using the 8th Edition of the ITE Trip Generation Manual. Land Use Code 912 Drive-in Bank was used by using rates per 1,000 square feet of gross floor area averaged with rates by drive-in lanes. The results are as follows:

Table 4
Proposed Trip Generation by Square Feet
Land Use Code 912 Drive-in Bank

By Square Feet	Square Feet	Rate (Trips / 1,000 sf)	Total Trips
Weekday AM Peak Hour of Generator	2,500	17.31	43
Weekday PM Peak Hour of Generator	2,500	26.69	67
Saturday Peak Hour of Generator	2,500	26.53	66
Sunday Peak Hour of Generator	2,500	4.78	12

Table 5
Proposed Trip Generation by Drive-In Lane
Land Use Code 912 Drive-in Bank

By Drive-In Lane	Drive-In Lanes	Rate (Trips / Drive-In Lane)	Total Trips
Weekday AM			
Peak Hour of	1	21.64	22
Generator			
Weekday PM			
Peak Hour of	1	29.05	29
Generator			
Saturday Peak			
Hour of	1	29.88	30
Generator			
Sunday Peak			
Hour of	1	N/A	N/A
Generator			

<u>Table 6</u>
Proposed Trip Generation Total Average
Land Use Code 912 Drive-in Bank

By Drive-In Lane	Trips by Square Foot	Trips by Drive-In Lane	Average Trips
Weekday AM Peak Hour of	43	22	22
Generator	43	22	33
Weekday PM			
Peak Hour of	67	29	48
Generator			
Saturday Peak			
Hour of	66	30	48
Generator			
Sunday Peak			
Hour of	12	N/A	12
Generator			

Given this information a Traffic Movement Permit would not be required from the MaineDOT due to the fact that the development would generate less than 100 peak hour trips.

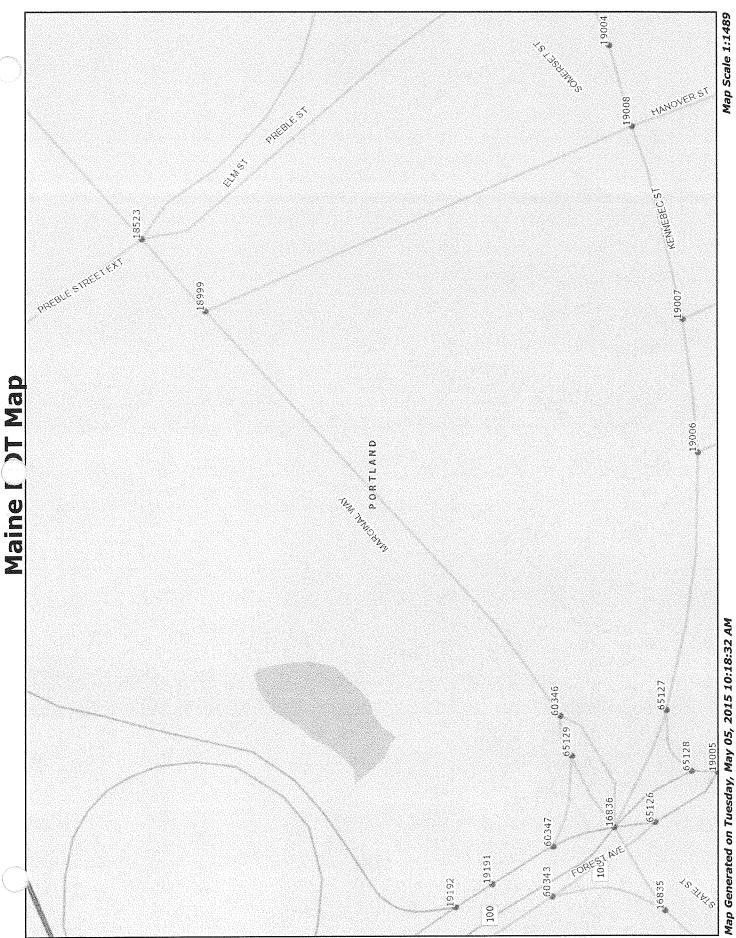
Conclusion

In conclusion, the trip generation for each of the uses is as follows:

<u>Table 7</u> Overall Trip Generation Comparison

	Existing 2,500 sf Automated Car Wash	2,500 sf Dunkin Donuts	2,500 sf Generic Coffee Shop	2,500 sf Drive- In Bank
AM Peak				
Hour of	106	231	92	33
Generator				
PM Peak Hour	118	N/A	49	48
of Generator	110	14/71	,,,	
Saturday Peak				
Hour of	116	N/A	N/A	48
Generator				
Sunday Peak				
Hour of	120	N/A	N/A	12
Generator				
Traffic				
Movement	N1 / A	Yes (200+	No	No
Permit	N/A	Trips)	No	No
Required?				

Given the above information, it is our opinion that a Traffic Movement Permit would only be required for the Dunkin Donuts which would generate 231 AM Peak Hour trips, putting it into the 200+ Traffic Movement Permit category. The remaining two uses all generate below 100 peak hour trips and therefore would not require a Traffic Movement Permit.



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Maine Department Of Transportation - Tra Engineering, Crash Records Section

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REPORT SELECTIONS Crash Summary I	Section Detail	✓ Crash Summary II	☐1320 Public	1320 Private	1320 Summary
REPORT DESCRIPTION Marginal					
REPORT PARAMETERS Year 2012, Start Month 1 through Year 2014 End M	gh Year 2014 End Month: 12				
Route: 0560477	Start Node: 16836 End Node: 18523	Start Offset: 0 End Offset: 0		<pre>Exclude First Node</pre> <pre>Exclude Last Node</pre>	ode ode
Route: 3201880	Start Node: 60346 End Node: 16836	Start Offset: 0 End Offset: 0		✓ Exclude First Node ✓ Exclude Last Node	ode ode

Maine Department Of Transportation - Traffic Engineering, Crash Records Section Crash Summary I

			Z	Nodes)									
Node	Route - MP	Node Description	U/R	U/R Total		Injury Crashes	Cras	hes	Õ.	ercent /	Percent Annual M Crash Pate	O ofed Haes	Critical	190
			J	Crashes	×	4	m	ပ	<u>_</u>	njury	B C PD Injury Ent-Veh		Rate	Š
P16836	P16836 0560477 - 0	Int of FOREST AV KENNEBEC ST MARGINAL WY STATE ! 9	6 ; ;	54	0	0	က	7	40	25.9	12.807 Statewi	7 1.41 Statewide Crash Rate:	0.98	1.43
A60346	0560477 - 0.03	A60346 0560477 - 0.03 Non Int MARGINAL WY	7	0	0	0	0	0	0	0.0	0.000 Statewi	0.00 Statewide Crash Rate:	0.00	0.00
18999	0560477 - 0.16	18999 0560477 - 0.16 Int of HANOVER ST MARGINAL WY	7	2	0	0	0	ო	7	0.09	4.102 Statewi	0.41 Statewide Crash Rate:	0.37	1.09
18523	0560477 - 0.18	18523 0560477 - 0.18 Int of ELM ST, MARGINAL WY, PREBLE ST, PREBLE ST EX 9	ი ×	25	0	0	~	9	17	29.2	9.923 Statewi	23 0.84 Statewide Crash Rate:	1.03 0.66	0.00
A65129	3201880 - 0.01	A65129 3201880 - 0.01 Intof CUT MARGINAL WY	7	0	0	0	0	0	0	0.0	0.000 Statewi	0.00 statewide Crash Rate:	0.00	0.00
Study >	Study Years: 3.00	NODE TOTALS:	:S:	84	0	0 0 4 20 59	4	20	59	28.6	28.6 26.832	1.04	0.79	1.32

Maine Department Of Transportation - Tic Engineering, Crash Records Section Crash Summary I

Start	End	Element	Offset	Route - MP	Section U/R Total	JR	Total		Injur	Injury Crashes	shes		Percent	Annual	Crash Rate	Critical	CRF
Node	Node		Begin - End		Length	<u>ت</u>	Crashes	¥	A	മ	ပ	PD	Injury	HMVM	APPARTED AND ADDRESS OF THE ADDRESS	Rate	
16836 60346 Int of FOREST AV K WY STATE ST EXT	60346 EST AV KE E ST EXT	16836 60346 3115192 0 - 0.03 Int of FOREST AV KENNEBEC ST MARGINAL WY STATE ST EXT	0 - 0.03 MARGINAL	0560477 - 0 RD INV 05 60477	0.03	8	0	0	0	0	0	0	0.0	0.00016	0.00 770.05 Statewide Crash Rate: 190.05	770.05 ate: 190.05	0.00
60346 Non Int MA	60346 18999 3 Non Int MARGINAL WY	60346 18999 3115193 on Int MARGINAL WY	0 - 0.13	0560477 - 0.03 RD INV 05 60477	0.13	2	7	0	0	0	~	_	50.0	0.00468	142.59 454.26 Statewide Crash Rate: 190.05	454.26 ate: 190.05	00.00
18523 1899 Int of ELM ST, MA PREBLE ST EXT	18999 ST, MARGI T EXT	18523 18999 3106676 0 - 0.02 Int of ELM ST, MARGINAL WY, PREBLE ST, PREBLE ST EXT	0 - 0.02 BLE ST,	0560477 - 0.16 RD INV 05 60477	0.02	7	~	0	0	0		0	100.0	0.00071	472.50 725.73 Statewide Crash Rate: 190.05	725.73 ate: 190.05	0.00
60346 Non Inf M [₽]	60346 65129 3	60346 65129 3123766 on Int MARGINAL WY	0 - 0.01	3201880 - 0 RD INV 3201880	0.01	7	0	0	0	0	0	0	0.0	0.00031	0.00 817.46 Statewide Crash Rate: 190.05	0.00 817.46 rash Rate: 190,05	0.00
65129 Int of CUT	65129 16836 313 intofcut MARGINAL WY	65129 16836 3139747 It of CUT MARGINAL WY	0 - 0.02	3201880 - 0.01 RD INV 3201880	0.02	7	0	0	0	0	0	0	0.0	0.00028	0.00 819.99 Statewide Crash Rate: 190.05	819.99 ate: 190.05	0.00
Study Y	Study Years: 3.00	00		Section Totals:	0.21		၃	0	0	0	7	-	2.99	0.00613	163.16	424.75	0.38
				Grand Totals:	0.21		87	0	0	4	22	09	29.9	0.00613	4731.57	588.58	8.04

Maine Department Of Transportation - Traffic Engineering, Crash Records Section Crash Cammary

Element Offset Route - MP Total Injury Crashes Crash Report Crash Report Crash Date Crash Injury 3115192 0 - 0.03 0560477 - 0.03 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>(Specialistics)</th><th></th><th></th><th></th><th></th><th></th><th></th></td<>								(Specialistics)						
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Maine Department Of Transportation - Transportation - Characteristics

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MONDAY	0	0	0	0	0	0	0	0	_	~	0	_		2		-	`		_	~	0	0	0	0	7
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		Vehicle Counts by Type	
Unit Type	Total	Unit Type Total	
1-Passenger Car	115	115 23-Bicyclist 2	
2-(Sport) Utility Vehicle	28	24-Witness 7	
3-Passenger Van	4	25-Other 3	*****
4-Cargo Van (10K lbs or Less)	7	Total 183	
5-Pickup	12		
6-Motor Home	0		
7-School Bus	0		
8-Transit Bus	7		
9-Motor Coach	~		
10-Other Bus	0		
11-Motorcycle	۲		
12-Moped	0		
13-Low Speed Vehicle	0		
14-Autocycle	0		
15-Experimental	0		
16-Other Light Trucks (10,000 lbs or Less)	~		
17-Medium/Heavy Trucks (More than 10,000	7		
(sq)			
18-ATV - (4 wheel)	0		
20-ATV - (2 wheel)	0		
21-Snowmobile	0		
22-Pedestrian	ო		

Maine Department Of Transportation - Trangineering, Crash Records Section Crash Summary II - Characteristics

Crashes by Driver Action at Time of Cras	ver Ac	tion at	: Time	of Cras	qe			Crashes by Apparent Physical Condition And Driver	parent Ph	ysical (Sonditi	on And	Driver		
Driver Action at Time of Crash	Dr 1	Dr 2	Dr 3	Dr 4	Dr 5	Other	Total	Apparent Physical Condition	Dr.1	Dr 2	Dr 3	Dr 4	Dr.5 0	Other T	Total
								Apparently Normal	84	78	က	0	0	5	170
No Contributing Action	20	31	-	0	0	0	88	Physically Impaired or Handicapped	ped 0	0	0	0	0	0	0
Ran Off Roadway	0	0	0	0	0	0	0	Emotional(Depressed, Angry, Disturbed, etc.)	0	0	0	0	0	0	0
Failed to Yield Right-of-Way	10	9	0	0	0	0	16	III (Sick)	0	7	0	0	0	0	2
Ran Red Light	-	က	0	0	0	0	4	Asleep or Fatigued	0	0	0	0	0	0	0
Ran Stop Sign	0	0	0	0	0	0	0	Under the Influence of Medications/Drugs/Alcohol	0	0	0	0	0	0	0
Disregarded Other Traffic Sign	~	τ-	0	0	0	0	7	Other	0	-	0	0	0	0	-
Disregarded Other Road Markings	7	~	0	0	0	0	က	exception and the property of	84	2	3	0	0	5	173
Exceeded Posted Speed Limit	0	0	0	0	0	0	0		•		,	•	,		•
Drove Too Fast For Conditions	_	က	0	0	0	0	4								
Improper Turn	7	4	0	0	0	0	9		Driver Age by Unit Type	را الا الا	it Type				
Improper Backing	~	0	0	0	0	0	_	Age Driver Bio	Bicycle Snov	SnowMobile	Pedestrian	rjan	ATV	-	Total
Improper Passing	0	0	0	0	0	0	0	09-Under	0	0	0		0		
Wrong Way	0	~	0	0	0	0	-	10-14 0	0	0	0		0		0
Followed Too Closely	2	22	7	0	0	0	29	15-19 8	0	0	0		0		8
Failed to Keep in Proper Lane	7	7	0	0	0	0	4	20-24	0	0	0		0		16
Operated Motor Vehicle in Erratic,	0	0	0	0	0	0	0	25-29 28	0	0	0		0		28
Reckless, Careless, Negligent or								30-39 37	0	0	0		0		37
Agglessive manner								40-49 23	0	0	0		0		23
Swerved or Avoided Due to Wind, Slipper, Surface, Motor Vehicle.	0	0	0	0	0	0	0	50-59 27	0	0	0		0		27
Object, Non-Motorist in Roadway								60-69	0	0	0		0		19
Over-Correcting/Over-Steering	0	0	0	0	0	0	0	7 67-07	0	0	0		0		7
Other Contributing Action	8	7	0	0	0	0	တ	80-Over 2	0	0	0		0		2
Unknown		0	0	0	0	0		Unknown 3	2	0	င		0		8
Total	84	81	8	0	0	0	168	Total 171	2	0	3	Domination of the control of the con	0	a principal management of the	176

Maine Department Of Transportation - Tra_Engineering, Crash Records Section Crash Summary II - Characteristics

W.	Most Harmful	Irmful Event			Infuny Data	
Most Harmful Event	Total		tal			Number Of
1-Overturn / Rollover	0	38-Other Fixed Object (wall, building, tunnel, etc.) 0	0	Severity Code Injury Crashes	Injury Crashes	Injuries
2-Fire / Explosion	0		2	쏘	0	0
3-Immersion	0	40-Gate or Cable 0	0	A	0	0
4-Jackknife	0	41-Pressure Ridge 0	0	В	4	4
5-Cargo / Equipment Loss Or Shift	0	Total 169	60	O	22	23
6-Fell / Jumped from Motor Vehicle	0	•	<u> </u>	PD	09	0
7-Thrown or Falling Object	0			A CONTRACTOR CONTRACTO	ANDRAKSHIRISHANDA MARRAKSA MARRAKSA MARKASHIRI KANDON KANDON KANDON KANDON KANDON KANDON KANDON KANDON KANDON KANDON MARRAKSA KANDON K	isat principal del principal d
8-Other Non-Collision	0			otai	86	27
9-Pedestrian	0					
10-Pedalcycle	~				Road Character	
11-Railway Vehicle - Train, Engine	0				Road Grade	Total
12-Animal	0			1-Level		87
13-Motor Vehicle in Transport	156			2-On Grade		0
14-Parked Motor Vehicle	0			3-Top of Hill		0
15-Struck by Falling, Shifting Cargo or Anything	0	Traffic Control Devices		4-Bottom of Hill		0
Set III Moust by Moust vernice 16-Mork Zone / Maintenance Equipment	c	Traffic Control Device Total		5-Other	в водость свяданную починальной славной станаванной станава	0
17-Other Non-Fixed Object) C		_	Total	maintendent de la companya del companya del companya de la companya del la companya de la compan	87
18-Impact Attentiator / Crash Cushion) C					
19-Bridge Overhead Structure	· C					
20-Bridge Pier or Support) C	ches				
21-Bridge Rail	0	5-Stop Signs - Other 1			Light	
22-Cable Barrier	0	•			Light Condition	Total
23-Culvert	0	ning Sign		1-Dayiignt		70
24-Curb	0	hool Patrol		Z-Dawn)
25-Ditch	0			3-Dusk		ο (
26-Embankment	0	10-School Zone Sign 0		4-Dark - Lighted	3	<u>?</u> c
27-Guardrail Face	0	rice		5-Dark - Not Lighted	D	o 6
28-Guardrail End	0			o-Uark - Unknown Lighting 7 Heferense	Lignting	0 0
29-Concrete Traffic Barrier	0			/-Unknown	estande del transcriptor para el transcriptor per interestante en el transcriptor del trans	0
30-Other Traffic Barrier	0			Total		87
31-Tree (Standing)	0		П			
32-Utility Pole / Light Support	0	lotal 87				
33-Traffic Sign Support	0					
34-Traffic Signal Support	0					
35-Fence	0					
36-Mailbox	0					
37-Other Post Pole or Support	0					

Maine Department Of Transportation - Transportation - Transportation Crash Summary II - Characteristics

Crashes by Year and Month

Month	2012	2013	2014	Total
JANUARY	0	denne		7
FEBRUARY	7	Ŋ	4	16
MARCH	က	0	4	7
APRIL	က	~	4	œ
MAY	က	7	4	တ
JUNE	7	8		2
JULY	0	~	က	4
AUGUST	4		4	တ
SEPTEMBER	~	2	4	7
OCTOBER	~	/		က
NOVEMBER	က	4	ಣ	10
DECEMBER	က	-	8	7
Total		21	36	87

Report is limited to the last 10 years of data.

Maine Department Of Transportation - ic Engineering, Crash Records Section

Crash Summary II - Characteristics

Crashes by Crash Type and Type of Location

Crash Type	Straight Road	Curved Road	Three Leg Four Leg Intersection Intersection		Five or More Leg Intersection	Driveways	Bridges	Interchanges	Other	Parking Lot	Private Way	Cross Over	Railroad Crossing	Total
Object in Road	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rear End / Sideswipe	~	0	23	19	25	τ	0	0	0	0	0	0	0	69
Head-on / Sideswipe	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Intersection Movement	0	0	~	7	6	0	0	0	0	0	0	0	0	12
Pedestrians	0	0	0	4	0	-	0	0	0	0	0	0	0	7
Train	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Went Off Road	0	0	0	~		0	0	0	0	0	0	0	0	7
All Other Animal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bicycle	0	0	0	7	0	0	0	0	0	0	0	0	0	8
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jackknife	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rollover	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fire	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Submersion	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thrown or Falling Object	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bear	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Deer	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Moose	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Turkey	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	TERRITORIS CONTRACTORIS CONTRAC		24	25	35	2	0	0	0	0	0	0	0	87

Maine Department Of Transportation - Transferring, Crash Records Section Crash Summary II - Characteristics

			Crashes	by Weath	Crashes by Weather, Light Condition and Road Surface	ondition a	nd Road St	ırface				
Weather Light	Dry	Ice/Frost	Mud, Dirt, Gravel	ō	Other	Sand	Slush	Snow	Unknown	Water (Standing, Moving)	Wet	Total
Blowing Sand, Soil, Dirt												
Dark - Lighted	0	0	0	0	0	0	0	0	0	0	0	
Dark - Not Lighted	0	0	0	0	0	0	0	0	0	0	0	0
Dark - Unknown Lighting	0	0	0	0	0	0	0	0	0	0	0	0
Dawn	0	0	0	0	0	0	0	0	0	0	0	0
Daylight	0	0	0	0	0	0	0	0	0	0	0	0
Dusk	0	0	0	0	0	0	0	0	0	0	0	0
Unknown	0	0	0	0	0	0	0	0	0	0	0	0
Blowing Snow												
Dark - Lighted	0	0	0	0	0	0	0	0	0	0	0	0
Dark - Not Lighted	0	0	0	0	0	0	0	0	0	0	0	0
Dark - Unknown Lighting	0	0	0	0	0	0	0	0	0	0	0	0
Dawn	0	0	0	0	0	0	0	0	0	0	0	0
Daylight	0	0	0	0	0	0	0	0	0	0	0	0
Dusk	0	0	0	0	0	0	0	0	0	0	0	0
Unknown	0	0	0	0	0	0	0	0	0	0	0	0
Clear												
Dark - Lighted	12	0	0	0	0	0	0	0	0	0	2	14
Dark - Not Lighted	0	0	0	0	0	0	0	0	0	0	0	0
Dark - Unknown Lighting	0	0	0	0	0	0	0	0	0	0	0	0
Dawn	0	0	0	0	0	0	0	0	0	0	0	0
Daylight	44	0	0	0	0	0	0	0	0	0	τ-	45
Dusk	7	0	0	0	0	0	0	0	0	0	0	2
Unknown	0	0	0	0	0	0	0	0	0	0	0	0
Cloudy								A CONTRACTOR OF THE PERSON OF				
Dark - Lighted	1	0	0	0	0	0	0	0	0	0	-	2
Dark - Not Lighted	0	0	0	0	0	0	0	0	0	0	0	0
Dark - Unknown Lighting	0	0	0	0	0	0	0	0	0	0	0	0
Dawn	0	0	0	0	0	0	0	0	0	0	0	0
Daylight	8	0	0	0	0	0	0	0	0	0	က	7
Dusk	_	0	0	0	0	0	0	0	0	0	0	-
Unknown	0	0	0	0	0	0	0	0	0	0	0	0

Maine Department Of Transportation - Transferring, Crash Records Section Crash Summary II - Characteristics

			Crashes	by Weath	Crashes by Weather, Light Condition and Road Surface	ondition an	hd Road Su	ırface				
Weather Light	Dry	Ice/Frost	Mud, Dirt, Gravel	ē	Other	Sand	Slush	Snow	Unknown	Water (Standing, Moving)	Wet	Total
Fog, Smog, Smoke												
Dark - Lighted	0	0	0	0	0	0	0				0	0
Dark - Not Lighted	0	0	0	0	0	0	0	0	0	0	0	0
Dark - Unknown Lighting	0	0	0	0	0	0	0	0	0	0	0	0
Dawn	0	0	0	0	0	0	0	0	0	0	0	0
Daylight	0	0	0	0	0	0	0	0	0	0	0	0
Dusk	0	0	0	0	0	0	0	0	0	0	0	0
Unknown	0	0	0	0	0	0	0	0	0	0	0	0
Other												
Dark - Lighted	0	0	0	0	0		0	0	0	0		
Dark - Not Lighted	0	0	0	0	0	0	0	0	0	0	0	0
Dark - Unknown Lighting	0	0	0	0	0	0	0	0	0	0	0	0
Dawn	0	0	0	0	0	0	0	0	0	0	0	0
Daylight	0	0	0	0	0	0	0	0	0	0	0	0
Dusk	0	0	0	0	0	0	0	0	0	0	0	0
Unknown	0	0	0	0	0	0	0	0	0	0	0	0
Rain												
Dark - Lighted	0	0	0	0	0	0	0	0	0	0	-	-
Dark - Not Lighted	0	0	0	0	0	0	0	0	0	0	0	0
Dark - Unknown Lighting	0	0	0	0	0	0	0	0	0	0	0	0
Dawn	0	0	0	0	0	0	0	0	0	0	0	0
Daylight	0	0	0	0	0	0	0	0	0	0	က	က
Dusk	0	0	0	0	0	0	0	0	0	0	က	ღ
Unknown	0	0	0	0	0	0	0	0	0	0	0	0
Severe Crosswinds												
Dark - Lighted	0	0	0	0	0	0	0	0	0	0	0	0
Dark - Not Lighted	0	0	0	0	0	0	0	0	0	0	0	0
Dark - Unknown Lighting	0	0	0	0	0	0	0	0	0	0	0	0
Dawn	0	0	0	0	0	0	0	0	0	0	0	0
Daylight	0	0	0	0	0	0	0	0	0	0	0	0
Dusk	0	0	0	0	0	0	0	0	0	0	0	0
Unknown	0	0	0	0	0	0	0	0	0	0	0	0

Maine Department Of Transportation - Trans Engineering, Crash Records Section Crash Summary II - Characteristics

			Grashes		her, Light C	Sondition a	by Weather, Light Condition and Road Surface	игасе				
Weather Light	Dry	Ice/Frost	Mud, Dirt, Gravel	lio	Other	Sand	Slush	Snow	Unknown	Water (Standing, Moving)	Wet	Total
Sleet, Hail (Freezing Rain or Drizzle)	rizzle)											
Dark - Lighted	0	0	0	0	0			0			0	ociona deteliorismo de la companie d
Dark - Not Lighted	0	0	0	0	0	0	0	0	0	0	0	0
Dark - Unknown Lighting	0	0	0	0	0	0	0	0	0	0	0	0
Dawn	0	0	0	0	0	0	0	0	0	0	0	0
Daylight	0	0	0	0	0	0	0	0	0	0	0	0
Dusk	0	0	0	0	0	0	0	0	0	0	0	0
Unknown	0	0	0	0	0	0	0	0	0	0	0	0
Snow												
Dark - Lighted	0	0	0	0	0	0	0	2	0	0	0	2
Dark - Not Lighted	0	0	0	0	0	0	0	0	0	0	0	0
Dark - Unknown Lighting	0	0	0	0	0	0	0	0	0	0	0	0
Dawn	0	0	0	0	0	0	0	0	0	0	0	0
Daylight	0	0	0	0	0	0	0	ဗ	0	0	0	က
Dusk	0	0	0	0	0	0	0	0	0	0	0	0
Unknown	0	0	0	0	0	0	0	0	0	0	0	он изведення поменьник пом
TOTAL	89	0		0	0	0		2	0	0	0	87